

**ALPHABETICAL INDEX
TO THE COMMERCE CONTROL LIST**

This index is not an exhaustive list of controlled items.

Supplement No. 4 to Part 774 – Commerce Control List Order of Review
identifies the steps to follow when reviewing the Commerce Control List.

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Finishing machines, gear	2B003
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Description	ECCN Citation
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Description	ECCN Citation
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Description	ECCN Citation
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Description	ECCN Citation
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Magnaporthe oryzae (Pyricularia oryzae).....	1C354.b.6
Magnesium (high purity)	1C228
Magnesium alloy, powder or particulate form	1C002.b.1.e
Magnesium alloys	1C002.a.2.e
Magnesium, metal and alloys of	1C011.a
Magnesium oxide (MgO) made or coated crucibles.....	2A225.a.6
Magnesium metal particulate.....	1C111.a.2.a.4
Magnetic alloy strips.....	1C003.c
Magnetic anomaly detection software	6D003.f.2
Magnetic bearings (suspension).....	2A001.c
Magnetic compensation systems for magnetic and underwater electric field sensors	6A006.d
Magnetic compensation systems software.....	6D003.f.1
Magnetic confinement plasma dry etching equipment	3B001.c.1.a
Magnetic and Electric Field Sensors "software"	6D003.f
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Magnetic gradiometers, intrinsic	6A006.c.2
Magnetic hard disk drive development or production technology	4E993.c
Magnetic metals	1C003
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Magnetometers not controlled by 6A006	6A996.a
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Mandrels, bellows-forming	2B228.c
Mandrels (precision) for filament winding machines	1B201
Manganin gauges, pressure	6A226.a
Manifolds (air, fuel, oil) for gas turbine engines	9A619.y.8
Manipulators, remote	2B225
Manipulators, for submersibles	8A002.i
Manned, tethered submersible vehicles	8A001.a
Manned, untethered submersible vehicles	8A001.b
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Description	ECCN Citation
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Marine acoustic systems	6A001.a
Marine boiler.....	8A992.1
Marine engines and parts (both inboard and outboard, n.e.s.).....	8A992.g
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Marx generators	3A999.c
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Masks	8A992.i
Masks, integrated circuits of 3A001	3B001.g
Masks, mask substrates, mask-making equipment	3B991.b.2
Mass spectrometers & ion sources (UF6 enrichment plant).....	3A233
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Materials for reduced electromagnetic reflectivity	1C101
Materials "specially designed" for ground vehicles and related commodities controlled by 0A606 and not elsewhere specified on USML	0C606
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Description	ECCN Citation
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Metal alloys, aluminum or titanium.....	1C202
Metal alloys, beryllium	1C230
Metal alloys, boron	1C011.b
Metal alloys, hafnium	1C231
Metal alloys, lithium	1C233
Metal alloys, powder and material production systems and components.....	1B002
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Metal alloys, tungsten or molybdenum.....	1C117
Metal alloys, zirconium	1C234
Metal coated fiber preforms	9A110
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Metal or carbon matrix.....	1A002.b
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Metal-organic compounds, aluminum/gallium/indium	3C003
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Metal powder production equipment	1B102
Metal vapor lasers	6A005.b
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Methyl centralites.....	1C018.a
Methyldiethanolamine (105-59-9)	1C355.b.2.b
Methyl phosphinyl dichloride	1C350.b.15
Methyl phosphinyl difluoride	1C350.b.16
Methyl phosphorous dichloride.....	1C350.b.15
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Methyl phosphonyl dichloride	1C350.b.17
Methyl phosphonyl difluoride (DF).....	1C350.a.3
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Microchannel plates, image intensifier tubes.....	6A002.a.2
Microcomputer microcircuits.....	3A001.a.3
Microcontroller microcircuits	3A001.a.3
Microcyclus ulei (syn. Dothidella ulei)	1C354b.3
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Description	ECCN Citation
Microelectronic circuits (e.g., integrated circuits and micro-circuits) rated, certified, or otherwise specified or described as meeting or exceeding all the characteristics in 9A515.d and that are "specially designed" for defense articles, "600 series" items, or items controlled by 9A515	9A515.d
Microelectronic circuits (e.g., integrated circuits and micro-circuits) that are rated, certified, or otherwise specified or described as meeting or exceeding all the characteristics in 9A515.e and that are "specially designed" for defense articles controlled by USML Category XV or items controlled by 9A515.....	9A515.e
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Micromachined Angular Rate Sensors	7A994
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Microprocessor microcircuits above 530 MTOPS development/production technology	3E002.g
Microwave amplifiers, solid state	3A001.b.4
Microwave frequency extenders, mixers/converters	3A001.b.7
Microwave integrated circuit test equipment.....	3B002.c
Microwave integrated circuits.....	3A001.b.2
Microwave modules.....	3A001.b.2
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Microwave or millimeter wave components software.....	3D982
Microwave or millimeter wave components technology.....	3E982
Microwave Monolithic Integrated Circuit (MMIC) power amplifier technology	5E001.d or .e
Microwave power modules (MPM).....	3A001.b.9
Microwave transistors (discrete).....	3A001.b.3
Microwave test receivers	3A002.f
Microwave wave components.....	3A001.b
MIG welders	2B999.d
Military construction equipment	0A617.y
Military explosive production equipment	1B018.a
Military ferries, bridges and pontoons	0A617
Military harbor entrance detection devices (magnetic, pressure, and acoustic).....	8A620
Military helmet.....	0A018
Military training equipment.....	0A614
Military vehicles	0A606
Military vehicle fording kits	0A606
Military vehicle self-launching bridge components	0A606
Military commodities.....	0A919
Millimeter wave components.....	3A001.b
Milling machines, (CNC) with two or more coordinated axes	2B001.b

Description	ECCN Citation
Milling machines, (CNC) with two or more coordinated axes	2B201.a
Milling machines (CNC).....	2B991.d.1
Mills, fluid energy.....	1B119
Mining equipment.....	2B999.h
Mirror assemblies/segments, space assembly	6A004.c.3
Mirror characterization equipment, reflectometers.....	7B102.b
Mirror control equipment, phased array/segment.....	6A004.d.4
Mirror structures, lightweight foam or composite type	6A004.a.3
Mirrors, actively cooled or heat pipe cooled	6A005.e.1
Mirrors, beam steering	6A004.a.4
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Mirrors, optical	6A005.e.2
Mirrors, optical	6A004.a
Missile engine combustion regulation devices	9A118
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Missile telemetry.....	5A101
Missile modeling, simulation & integration software.....	9D103
Mixed Oxides of Nitrogen (MON)	1C111.a.3.d
Mixers, batch.....	1B117
Mixers, continuous.....	1B118
Mixers, frequency extenders	3A001.b.7
Mobile communications equipment, assemblies and components	5A991.g
Modeccin toxin	1C351.d.10
Modeling/simulation of guidance sets, software	7D103
Modems.....	5A991.b.2
Modular time interval meter	3A999.e2
Modules, microwave	3A001.b.2
Modules/assemblies, fast switching function	3A228.c
Molecular beam epitaxial growth equipment using gas sources	3B001.a.3
Molecular beam epitaxial growth equipment	3B991.b.1.e
Molecular beam mass spectrometers	3A233.e
Molybdenum alloy fibers	1C010.c Note 2
Molybdenum & tungsten metals & alloys	1C117
Monel equipment including valves, piping, tanks and vessels	2B999.f
Monel plate	1C999.c
Monitoring equipment, radiation	1A999.a
Monitoring systems, toxic gas	2B351
Monkey pox virus	1C351.a.23
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Monolithic integrated circuit repair or trimming laser equipment.....	3B991.b.1.m
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Description	ECCN Citation
Motion control boards for machine tools	2B991.b
Motion simulators or rate tables	2B120
Multi-chamber central wafer handling systems	3B001.e
Multi-channel interval meter.....	3A999.e2
Multi-data-stream processing equipment, development or production technology for	4E993.b
Multi-element detector arrays	6A002.a.3
Multi-layer hetero-epitaxial material substrates & wafers.....	3C001
Multi-layer masks (with phase shift layer), for integrated circuits	3B001.h
Multipchip integrated circuits	3A001.a Note 2
Multilevel security capability, equipment.....	5A002.a.6
Multimode optical fiber & cables, high tensile strength.....	5A001.c
Multiple-seal pumps.....	2B350.i
Multiplex equipment.....	5A991.b Note a.7
Multipoint initiation systems	3A232.b
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Multispectral imaging sensors	6A002.b
Multistage light gas gun systems	2B232
Multi-walled piping incorporating a leak detection port	2B350.h
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Mycoplasma capricolum subspecies capripneumoniae ("strain F38")	1C352.b.1.b
Mycoplasma mycoides subspecies mycoides SC (small colony) (a.k.a. contagious bovine pleuropneumonia)	1C352.b.1.a
N,N-diisopropyl-beta-aminoethane thiol	1C350.b.6
N,N-diisopropyl-(beta)-amino ethanol	1C350.b.8
N,N-diisopropyl-beta-aminoethyl chloride	1C350.b.9
N,N-diisopropyl-(beta)-aminoethyl chloride hydrochloride.....	1C350.b.7
NBC (Nuclear, biological and chemical) detection system software	1D003
NBC (Nuclear, biological and chemical) detection system libraries or parametric technical databases	1E002.g
NN-Diphenylurea (unsymmetrical diphenylurea)	1C018.b
Nanocrystalline alloy strips.....	1C003.c
Natural gas liquids and derivatives produced or derived from Naval Petroleum Reserves	1C983
Navigation, airborne comm. & other avionics equip. technology	7E004, 7E994, 0E521 No. 6
Navigation, airborne communication and other avionics software	7D004, 7D994, 0D521 No. 2
Navigation direction finding equipment	7A004-7A008, 7A103-7A105, 7A994
Navigation systems, equipment & components, inertial	7A103
Navigation systems, equipment & components, inertial	7A003
Navigation systems, underwater sonar	7A008

Description	ECCN Citation
NDT (non-destructive test) inspection equipment (3D)	1B001.f
NDT (non-destructive test) inspection equipment.....	9B007
Neodymium lasers	6A005.d.6
Neodymium lasers	6A205.f
Nets (submarine or torpedo)	8A620.e
Network analyzers	3A002.e
Network access controllers contained in computer equipment.....	4A994.i
Network access controllers contained in telecommunications	5A991.b.4.a
Neural computers/assemblies/components	4A004.b
Neural network integrated circuits.....	3A001.a.9
Neutron generator systems & tubes	3A231
Neutronic calculations/modeling, software for.....	0D999.a
Newcastle disease virus	1C352.a.9
Nickel alloy	1C002.a.2.a
Nickel alloy/powder or particulate form	1C002.b.1.a
Nickel aluminides	1C002.a.1.a
Nickel based alloys	1C002.a.1
Nickel electroplating equipment	2B999.i
Nickel metal (made from powder).....	1C240
Nickel powder.....	1C240
Night vision devices.....	6A002.a.2, 6A003.b.3, 6A003.b.4, 6A202 or 6A203
Night vision technology	6E002 or 6E101
Niobium alloys.....	1C002.a.2.b
Niobium alloy/powder or particulate form	1C002.b.1.b
Nipah virus	1C351.a.25
3-Nitraza-1,5 pentane diisocyanate.....	1C018.1
Nitric acid.....	1C999.e
Nitrided niobium-titanium-tungsten alloy crucibles	2A225.a.7
2-Nitrodiphenylamine	1C111.c.3 or 1C018.h
Nitrogen dioxide (dinitrogen tetroxide)	1C111.a.3.b
Nitroglycerin (in medicinal form).....	1C992.1
Nitroguanidine	1C011.d
P-Nitromethylaniline.....	1C018.i
N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethyl-2-clorides and corresponding protonated salts	1C355.a.2.d
N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-ols and corresponding protonated salts	1C355.a.2.e
N,N-Dialkyl (Me, Et, n-Pr or i-Pr) aminoethane-2-thiols and corresponding protonated salts	1C355.a.2.f
N,N-Dialkyl (Me, Et, n-Pr or i-Pr) phosphoramidic dihalides	1C355.a.2.b
Noise reduction equipment for vessels, acoustic mounts	8A002.o.3.a

Description	ECCN Citation
Noise cancellation systems for vessels, active.....	8A002.o.3.b
Noise reduction systems for vessels, active	8A002.o.3.b
Non-destructive inspection equipment	1B001.f
Non-destructive test inspection equipment, rocket motor	9B007
Non-fluorinated polymeric substances	1C008
Non-fluorinated polymeric manufactures	1A003
Non-irritant smoke flares, canisters, grenades and charges	1A984
Non-linear optical materials.....	6C004.c
Non-planar absorbers	1C001.a Note 1.b
Non-tunable continuous wave (CW) lasers	6A005.a or 6A995.e
Non-tunable pulsed lasers	6A005.b or 6A995.d
Non-tunable solid state lasers	6A005a or b or 6A995.f
Nozzles, for producing pyrolytically derived materials.....	1B116
Nozzles, rocket motor (liquid)	9A106.b
Nuclear material handling and processing equipment	2A291
Nuclear materials, facilities, and equipment software	0D001
Nuclear plant commodities, parts and accessories.....	2A291.d
Nuclear reactor, eddy current test equipment	2A291.d
Nuclear reactor equipment.....	2A291
Nuclear reactor, simulators	2A291.b
Nuclear reactor, ultrasonic test equipment.....	2A291.d
Nuclear reactors fuel element (irradiated) reprocessing plant/equipment	0B006
Nuclear technology for the development, production or use of nuclear materials, facilities, and equipment	0E001
Numerical control for machine tools - software	2D002 and 2D003
Numerical control for machine tools - technology	2E003.d
Numerical control units for machine tools and numerically controlled machine tools, n.e.s.....	2B991
Numerically controlled machine tools	2B290
Numerically controlled machine tools that can be equipped with electronic devices for simultaneous contouring control	2B991.c
O-ring for ground vehicles.....	0A606.y.9
Object detection and location systems or transmitting and receiving arrays (acoustic).....	6A001.a.1.b
Ocean salvage systems.....	8A001.e
Off highway wheel tractors.....	9A990
Oil well cartridges.....	1C618.f or 1C992.g
Oil lines and tubes for military gas turbine engines	9A619.y.2
Oil tank and reservoirs for military gas turbine engines.....	9A619.y.1
Oil, lubricating, cutting, or quenching	1C980
Oils, distillate fuel.....	1C980

Description	ECCN Citation
Omsk haemorrhagic fever virus.....	1C351.a.26
On-highway tractors.....	9A990
Operating systems for real time processing equipment, software	4D993.c
Operating system software for real time processing equipment.....	4D993.c
Optical absorption materials, low	6C994.a
Optical components, space-qualified	6A004.c
Optical components for lasers.....	6A005.e
Optical components for lasers.....	6A004.b
Optical computers	4A004.c
Optical control equipment.....	6A004.d
Optical detectors, radiation hardened	6A102
Optical detectors & sensors	6A002
Optical element inspection or testing equipment and components.....	3B992.a
Optical element manufacturing equipment and components.....	3B991.a
Optical elements, aspheric	6A004.e
Optical equipment.....	6A005.f
Optical equipment.....	6B004
Optical equipment other than optical surface scattering measurement equipment.....	6B004.b
Optical fabrication technologies	6E003.d.2
Optical fabrication technologies	6E993.a
Optical fiber characterization equipment.....	5A991.b Note b.3
Optical fiber couplers or connectors for underwater use	8A002.c
Optical fiber & accessories, communications.....	5A001.c
Optical fiber preforms.....	6C994.b
Optical fiber preforms.....	5C991
Optical fibers/fiber cable, sensing.....	6A002.d.3
Optical fiber sensing elements, hydrophones	6A001.a.2.a.2
Optical filters	6A994.a
Optical filters technology.....	6E993.b
Optical finishing processes	2B002.d
Optical (Infrared) tracking (range) radars.....	6A108.b.2
Optical integrated circuits	3A001.a.6
Optical materials	6C994
Optical materials, with non-linear characteristics.....	6C004.b.3
Optical mirrors (reflectors)	6A004.a
Optical mirrors (reflectors)	6A005.e.2
Optical sensing fibers not controlled by 6A002	6C992
Optical Sensors	6A992
Optical sensor cryocoolers.....	6A002.d.1
Optical sensors - flight control systems - technology	7E004
Optical sensors, optical fiber.....	6A002.d.3

Description	ECCN Citation
Optical sensor materials	6C002
Optical sighting devices for firearms	0A987
Optical surface coating/treatment technology	6E003.d.1
Optical switching equipment	5A991.c.10.c
Optical switching equipment, technology for the development of equipment employing.....	5E001.c.3
Optical-electro shutters, Kerr or Pockel cells	6A203.b.3.c
Optics	6A994
Optics, (optical components)	6A004
Optimization of rocket systems trajectory technology	7E104
Organic fibers & filamentary materials	1C010.a
Organic matrix	1A002.a
Organo-metallic compounds	3C003
Oropouche virus.....	1C351.a.27
Oscillators or oscillator assemblies.....	3A001.b.10
Oscilloscopes (analog and digital)	3A292
Oxide matrix reinforced materials	1C007.f
Oxygen Iodine (O ₂ -I) laser.....	6A005.d.5.c.1
PABXs (Private Automatic Branch exchanges)	5A991.c
Packet switching equipment	5A991.c.10
Parachutes, military.....	9A610.h
Paraffin wax	1C980
Parametric technical databases	1E002.g
Particle accelerators	1B999.b
Particle flow detection microphone	6A005.g
Passenger seats for military aircraft.....	9A610.y.16
Particle measuring systems employing lasers.....	3B992.b.7
Passive coherent location systems or equipment	5A001.g
Passive sensors, direction finding systems	7A115
Passive acoustic systems.....	6A001.a.1.d
Pathogens, genetically modified microorganisms	1C353.a
Pathogens, animal	1C352
Pathogens, human	1C351
Pathogens, plant	1C354
Pathogens, zoonotic	1C351
PBAA (Polybutadiene-acrylic acid)	1C111.b.3
PBAN (Polybutadiene-acrylic acid-acrylonitrile).....	1C111.b.4
PEEK (Polyether ether ketone).....	1C998
PEK (Polyether ketone)	1C998
PEKEKK (Polyether ketone ether ketone ketone).....	1C998
PEKK (Polyether ketone ketone).....	1C998

Description	ECCN Citation
1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene (382-21-8) (PFIB)	1C355.a.1.a
Perfluoroaliphatic-ethers, monomeric or polymeric	1C006.d.1.a
Perfluoroalkanes	1C006.d.1.d
Perfluorocycloalkanes	1C006.d.1.c
Perfluoropolyalkylether-triazines, monomeric or polymeric	1C006.d.1.a
Performance improvement software, navigation systems	7D003.a
Performance improvement source code, navigation systems	7D003.b and 7D004
Peronosclerospora philippinensis (a.k.a. Peronosclerospora sacchari).....	1C354.b.7
Peste des petits ruminants virus	1C352.a.10
Petroleum products produced or derived from Naval Petroleum Reserves	1C982
Petroleum, crude or reconstituted	1C981
PFIB (1,1,3,3,3-Pentafluoro-2-(trifluoromethyl)-1-propene (382-21-8)	1C355.a.1.a
Phased array antennae (in radar).....	6A008.e
Phased array/segment mirror control equipment	6A004.d.4
Phased array antennae (in radar).....	5A001.d
Phased array antennae	5A991.f
Phenylene, as lubricating fluids	1C006.b.1
Phoma glycincola (formerly Pyrenophaeta glycines)	1C354.b.12
Phosgene: Carbonyl dichloride (75-44-5).....	1C355.b.1.a
Phosphate glass	6C004.e
Phosphor bronze or copper mesh packings.....	1A226
Phosphor image plates, storage.....	1A999.b
Phosphorus hydrides	3C004
Phosphorus oxychloride.....	1C350.c.3
Phosphorus pentachloride	1C350.c.4
Phosphorus pentasulphide.....	1C350.d.10
Phosphorus trichloride	1C350.c.5
Photo-enhanced CVD equipment	3B991.b.1.i
Photo-enhanced diffusion equipment	3B991.b.1.g
Photo-optical step and repeat cameras	3B991.b.2.d.1
Photocathodes	6A002.a.2.c
Photographic still cameras, underwater	8A001.e
Photographic still cameras, for underwater use	8A992.b
Photomultiplier tubes	6A202
Photovoltaic arrays, space qualified or radiation hardened	3A001.e.4
Physics-based simulation “software” specially designed for the “development” of lithographic, etching or deposition processes	3D003
Piezoelectric polymer & copolymer, made from vinylidene fluoride materials.....	1A001.b
Piezoelectric sensing elements, hydrophones	6A001.a.2.a.2.b
Pinacolone	1C350.d.11
Pinacolyl alcohol.....	1C350.b.18

Description	ECCN Citation
Piping, austenitic stainless steel	2B999.n
Piping, fittings and valves of or lined with stainless steel, copper-nickel alloy or other alloy steel	2A292
Piping, monel	2B999.f
Piping, multi-walled incorporating a leak detection port.....	2B350.h
Piping, stainless steel	2B999.g
Piping, vacuum	2B999.k
Pitch-impregnated fibers	1C010.e
Planar absorbers	1C001.a Note 1, c or d
Plant pathogens, bacteria or fungi.....	1C354
PLAs (Programmable Logic Arrays).....	3A001.a.8
Plasma atomization & melting furnaces	2B227.b
Plasma dry etching equipment	3B001.c
Plasma-enhanced CVD (PECVD) equipment	3B991.b.1.i
Plasma enhanced or plasma assisted CVD production equipment	2B005.a.1.c
Plasma spraying production equipment, with controlled atmosphere	2B005.d
Platforms, complete	9A992, 9A610.h
Platinized catalysts.....	1A225
Plutonium metal production systems	0B006.g
Plutonium nitrate conversion systems	0B006.f
Pocket cell electro-optical shuttering.....	6A203.b.3.c
Police helmets and shields	0A979
Polyarylene ketones	1C008.d
Polybiphenylenethersulphone	1C008.f
Polybromotifluoroethylene	1C006.c.3
Polybutadiene-acrylic acid (PBAA)	1C111.b.3
Polybutadiene-acrylic acid-acrylonitrile (PBAN).....	1C111.b.4
Polycarbosilazanes.....	1C007.e.3
Polychlorotrifluoroethylene	1C006.c.2
Polycrystalline alimina fibers	1C010.c Note 1
Polycrystalline silicon and materials production equipment	3B991.b.1.a
Polydiorganosilanes, precursor for silicon carbide	1C007.e.1
Polyether ketone ether ketone ketone (PEKEKK)	1C998
Polyether ketone (PEK)	1C998
Polyether ether ketone (PEEK).....	1C998
Polyether ketone ketone (PEKK)	1C998
Polyetherimides, fibrous & filamentary materials composed of	1C010.d.1.a
Polygraphs.....	3A981
Polymeric or metallo-organic materials.....	1C007.e
Polymeric substances	1C111.b
Polymeric substances, non-fluorinated	1C008

Description	ECCN Citation
Polymeric substances, non-fluorinated	1C998
Polysilazanes, precursor for silicon nitride	1C007.e.2
Polythiophene	1C001.c.3
Porcine enterovirus type	91C352.a.11
Porcine herpes virus (Aujeszky' disease)	1C352.a.6
Porous nickel metal.....	1C240
Portable electric generator development or production software	2D994
Portable electric generators.....	2A994
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Semiconductor devices manufacturing equipment and systems.....	3B991.b
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Sensors, optical	6A002
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“Software” “specially designed” for ground vehicles and related commodities controlled by 0A606, 0B606, or 0C606	0D606
“Software” “specially designed” for commodities controlled by 0A617, “equipment” controlled by 0B617, or materials controlled by 0C617	0D617
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Description	ECCN Citation
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Description	ECCN Citation
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Submersible systems	8A992.e
Submersible vessels, cargo and transport	8A620
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Substrates, multi-layer hetero-epitaxial materials.....	3C001
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Supercavitating propellers	8A002.o.1.a
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Description	ECCN Citation
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Superconductive electronic device technology.....	3E003.c
Superplastic forming technology, metal working.....	2E003.b.1.a
Superplastic forming tools, dies, molds or fixtures	1B003
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Surface coating & processing equipment	2B005
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Synchronous Optical Network technology (SONET).....	5E991.a.2

Description	ECCN Citation
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Syntactic foam, underwater use	8C001
Synthetic crystalline laser host material	6C005
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Tanks, austenitic stainless steel.....	2B999.n
Tanks, chemical storage (capacity greater than 100 L)	2B350.c
Tanks, monel.....	2B999.f
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Tape-laying machines	1B101.b
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Description	ECCN Citation
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Telecommunication monitoring equipment	5A001.f
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Telecommunications transmission equipment, software for the development of equipment employing	5D001.d
Telecommunications transmission equipment, technology for the development of equipment employing	5E001.c
Telemetering & telecontrol equipment for missiles.....	5A101
Television cameras, underwater.....	8A002.d.1.b
Television systems (camera, lights, monitoring and signal transmission equipment), remote operation with submersible vehicle	8A992.a.1
Television cameras, underwater.....	8A002.d.1
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Thrust vector control sub-system.....	9A106.c
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Tick-borne encephalitis virus (Siberian subtype, formerly known as West Siberian virus).....	1C351.b.3
Tilletia indica	1C354.b.10
Tilt rotor/tilt wing power transfer system technology	9E003.d, 9E610.a
Tilting spindles for machine tools.....	2B009.c
Time delay general, electronic equipment for	3A999.e
Time interval measurement, electronic equipment for	3A999.e
Time or frequency domain processing & correlation equipment	6A001.a.2.c
TIMS (Thermal ionization mass spectrometers).....	3A233.c
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Titanium alloys	1C002.b.3
Titanium alloys, as tubes/solid forms/forgings	1C202.b
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Description	ECCN Citation
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Titanium doped sapphire laser host material	6C005.a
Titanium-sapphire (Ti: Al ₂ O ₃) lasers	6A005.c.1, c.2 or c.3
Titanium-stabilized duplex stainless steel 9Ti-DSS)	1C118
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Tracking systems	6A008.1
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Transistor test equipment, S-parameter measurement	3B002.a
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Tributyl phosphate	1C999.d
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Triethyl phosphite	1C350.c.10
Triethylene glycol dinitrate (TEGDN).....	1C111.c.2
Triggered spark-gaps	3A228.b
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Description	ECCN Citation
Tritium, compounds & mixtures	1C235
Tritium plant or facilities equipment	1B231.b
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Tubes, vacuum sprytron	3A228.a
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Tunable lasers	6A005.c
Tunable lasers, solid state	6A005.c.1, c.2 or c.3
Tungsten alloys	1C004
Tungsten alloy, parts	1C226
Tungsten carbide, parts	1C226
Tungsten & molybdenum metal & alloys	1C117
Tungsten, parts	1C226
Turbines for use in nuclear reactors.....	2A290.a
Turbines, aero gas engines, test software.....	9D004.b, 9D619
Turbines, gas aero engines	9A001, 9A619.a
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Turning machines (CNC).....	2B991.d.1
Turning machines.....	2B201.c
Turning machines (CNC).....	2B001.a
TV cameras, radiation-hardened	6A203.c
TV cameras, radiation-hardened, not specified in 6A203	6A999.b
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Underwater cameras, photographic	8A002.d, e or f
Underwater camera equipment, n.e.s.....	8A992.d
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Underwater ElectroMagnetic Receivers (UEMR)	6A006.e
Underwater ElectroMagnetic Receivers (UEMR) software	6D003.f.3 or f.4

Description	ECCN Citation
Underwater electric field sensors.....	6A006.b
Underwater lights.....	8A992.j
Underwater noise reduction technology	8E002
Underwater (propeller) noise reduction software	8D002
Underwater propulsion equipment.....	8A992.j
Underwater rebreathing apparatus	8A620.f
Underwater robots, computer controlled	8A002.h
Underwater sonar navigation systems	7A008
Underwater systems or equipment and parts, not controlled by 8A002	8A992
Underwater television cameras	8A992.a.2
Underwater vehicles, industrial	8A001
Underwater velocity measurement equipment.....	6A001.b
Underwater vessel positioning systems, acoustic	6A001.a.1.d
Underwater vision systems	8A002.d
Underwater vision systems	8A992.a
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Unmanned aerial vehicles and associated systems, production equipment	9B010, 9A610
Unmanned aerial vehicles, associated equipment, systems, and components	9A012.b, 9A610
Unmanned air vehicle systems (UAVs) Non-military	9A012.a
Unmanned tethered submersible vehicles.....	8A001.c
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Urine collection bags/pads/cups/pumps for military aircraft.....	9A610.y.21
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Vacuum furnaces	2B226
Vacuum furnaces	2B227
Vacuum induction furnaces	2B226
Vacuum induction furnace, power supplies.....	2B226
Vacuum melting, remelt & casting furnaces.....	2B227
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Vacuum sprytron tubes	3A228.a
Vacuum valves, piping, flanges, gaskets	2B999.k
Valve seats, made from fluoroelastomers	1A001.c
Valves, austenitic stainless steel	2B999.n
Valves, bellows seal.....	2A226
Valves, bellows	2B350.g
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Description	ECCN Citation
Valves, double-seal	2B350.g
Valves, of or lined with stainless steel, copper-nickel alloy or other alloy steel	2A292
Valves, diaphragm	2B350.g
Valves, monel	2B999.f
Valves, multiple seal incorporating a leak detection port	2B350.g
Valves, non-return (check).....	2B350.g
Valves, stainless steel.....	2B999.g
Valves, vacuum.....	2B999.k
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Vector processing unit technology.....	3E002
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Vehicles, "specially designed" for a military use	0A606.a
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Ventilated full or half (protective clothing) suits.....	2B352.f.1
Ventilated propellers.....	8A002.o.1.a
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Vesicular stomatitis virus.....	1C352.a.15
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Vessel positioning systems, acoustic	6A001.a.1.d
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Vessels, marine	8A001, 8A609, 8A620
Vessels, marine systems or equipment	8A992
Vessels, monel	2B999.f
Vessels, stainless steel	2B999.e
Vests, bulletproof & bullet resistant	1A005
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Vibration test equipment, parts and components.....	9B990
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Description	ECCN Citation
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Water jet (pumpjet) propulsion systems	8A002.p
Water tanks (potable) and accessories for military aircraft	9A610.y.17
Water tanks (potable) and accessories for submersible vessels.....	8A620.y.7
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Welders, E-beam.....	2B999.e
Welding machines, laser	2B999.c
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Western red cedar, logs and timber.....	1C988
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Description	ECCN Citation
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Wind tunnel, control systems.....	9B005
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X-ray machines, flash	3A999.c
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Xanthomonas axonopodis pv. citri (Xanthomonas campestris pv. citri A) (Xanthomonas campestris pv. citri).....	1C354.a.2
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Yellow fever virus.....	1C351.a.39
Yersinia pestis	1C351.c.20
Yttrium oxide (yttria) (Y_2O_3), crucibles made or coated	2A225.a.8
Zinc germanium biphosphide	6C004.b.4
Zinc germanium diphosphide	6C004.b.4
Zinc germanium phosphide.....	6C004.b.4
Zinc selenide (ZnSe), substrate blanks	6C004.a
Zinc sulphide (ZnS), substrate blanks.....	6C004.a
Zirconium fluoride (ZrF_4) glass	6C004.e
Zirconium metal particulate	1C111.a.2.a.1
Zirconium metal, alloy, compounds, or manufacturers	1C234
Zirconium oxide (zirconia) (ZrO_2) made/coated crucibles	2A225.a.9
Zoonotic pathogens and “toxins”	1C351

Note: Prior to October 15, 2013, the CCL contained certain ECCNs that were only included as cross references to items subject to the export control regulations administered by the Nuclear Regulatory Commission. ECCNs formerly listed on the CCL that, as of October 15, 2013 were subject to the export licensing authority of the Nuclear Regulatory Commission at 10 CFR part 110 are: 0A001, 0B001, 0B002, 0B003, 0B004, 0B005, 0B006, 0C001, 0C002, 0C004, 0C005, 0C006, 0C201 and 1C012. See Section § 774.1(b) for additional information.